



Published weekly for employees of Lawrence Livermore National Laboratory

Friday, May 14, 2004

Vol. 29, No. 19

New office building a first for Lab

By Don Johnston
NEWSLINE STAFF WRITER

The Laboratory's first "replacement" office building constructed under the Facility and Infrastructure Recapitalization Program was dedicated in a ceremony Monday.

Bldg. 142, located north of Bldg. 132, will house offices of the Physics and Advanced Technologies Directorate.

"This is another exciting step for the Lab in preparing for the future," Director Michael Anastasio said. "It is a way to reduce the number of trailers and high maintenance facilities. Buildings like this provide better safety, security and fit our mission needs for the future."

Noting the many changes at the Laboratory with the recent completion

Innovative construction
— see page 8

See BLDG. 142, page 8



JACQUELINE MCBRIDE/NEWSLINE

Director Michael Anastasio cuts the ribbon to the new Bldg. 142 as NNSA Livermore Site Manager Camille Yuan-Soo Hoo and Physics and Advanced Technologies Associate Director Bill Goldstein look on.

Counter intelligence effort receives 'excellent' rating after thorough NNSA audit

Jeff Morris
SAFE PROGRAM

In the world of spies and counterspies, agents tend to try to blend into the woodwork. The best ones tend to be the least visible.

At LLNL, it's a different story.

The Laboratory's Security Awareness for Employees (SAFE) Program is purposely very visible in its role of providing counterintelligence awareness to Lab employees. The SAFE Program itself has been thrust into the spotlight recently —

First, SAFE underwent an intensive audit by the Department of Energy's Office of Counterintelligence (OCI) inspectors between March 22 and April 1.

Second, it earned the first "excellent" rating ever garnered by a DOE/NNSA counterintelligence office in such a thorough inspection. The inspectors rated SAFE in 12 areas, including management, operations and liaison with other Laboratory organizations.

Laboratory Director Michael Anastasio congratulated the SAFE team. Associate Director for Nonproliferation, Arms Control and International Security (NAI) Wayne Shotts added his congratulations, saying "The first overall excellent rating is quite an achievement."

See SAFE, page 7

CFO Phil Schultz announces he will end a 36-year career at the Laboratory July 1

Editor's note: Due to editing errors in last week's edition, Newsline is running the correct feature on CFO Phil Schultz. Newsline apologizes for the errors.

Come July 1, Phil Schultz plans to begin the next phase of his career: that of retiree.

Schultz, the Lab's chief financial officer, announced he will retire from the Lab after 36 years of having been both an engineer and a senior manager.

It wasn't an easy decision. "I've absolutely enjoyed my job," Schultz said. "The Lab has been great and the people here are wonderful. So the decision to step away was difficult. I will miss it."

Ask Schultz to reveal his plans for retirement and he won't offer much. He has some travel plans: with his grandchildren and the rest of his family to Yosemite, fol-

See SCHULTZ, page 7

Reflections on the Asian American experience

By Anne M. Stark
NEWSLINE STAFF WRITER

Camille Yuan-Soo Hoo knows first hand about the plight of Asian Americans. Her parents fled communist China and settled in Taiwan. From there, her father came to the United States in 1956 on a student visa to receive his degree in civil engineering.

It wasn't until five years later that Yuan-Soo Hoo, her mother and sister came to the states without knowing a word of English. Her family settled in Seattle where her father worked for Boeing.

Yuan-Soo Hoo, LLNL site manager for the National Nuclear Security Administration (NNSA), recalled her experience as an immigrant as well as the difficulties other Asian



JACQUELINE MCBRIDE/NEWSLINE

Camille Yuan-Soo Hoo

Americans faced in the late 1800s and through the 1900s during the Laboratory's kick off event Tuesday for Asian Pacific American Heritage Month.

"There weren't a lot of Asians in that area at that time," she recalled. "The day before I started school, I remember staying up all night — being in a new country, about to be enrolled in a new school and didn't know any English."

However, she and her sister went on to learn English quickly and proceeded to do very well in school. Unlike her father, Yuan-Soo Hoo earned her degree in business and soon realized

See APAHM, page 5



Seeing the light at the heart of the matter
— Page 5



Unsinkable bottom dweller wins the gold
— Page 7



New program allows Lab to replace aging facilities
— Page 8



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Saturday
15

LLESA's annual **Family Day Picnic** will be today at Six Flags Marine World, Vallejo. Park hours are 10 a.m.-7 p.m. LLESA ticket price is \$26.50 for all ages (children 2 and under are free) and includes unlimited access to rides, shows and animal attractions, plus an all-you-can-eat hot dog buffet between 11:30 a.m and 1:30 p.m. Guests also receive a complimentary ticket good for another day at Six Flags Marine World during the 2004 season when they check-in at the picnic area. For more information, contact the Time Zone, 2-9035.

Wednesday
19

The Compensations, Benefits and Worklife Programs Department has invited **Fidelity Investment Company** to speak today from noon – 1 p.m. in the Bldg. 123 auditorium. Roland Jacobson, vice president of Investment Consulting, will present his views on the economy and the market, historical mutual fund performance, and advanced allocation principles. All employees are welcome to attend; no pre-registration required, but seating is limited.

...

Professor James Russell of the Naval Postgraduate School will present his lecture **"Implementing the Nuclear Posture Review: The Middle East Redux?"** today at 3 p.m. in Bldg. 123 auditorium. For more information on the LLNL/Naval Postgraduate School lecture series, go to <http://npslectures.llnl.gov>. For further information, contact Harry Radousky, 2-4478, or Brenda Foster, 3-8257, of the University Relations Program.



The **Vaqueros Del Mar Dive Club 25th Annual Seafood Festival and Photographic Print Auction** will be held from 6-10 p.m. on Saturday, June 26, at the Livermore Rod & Gun Club, 4000 Dagnino Road, Livermore. Tickets are \$25. For more information or to purchase tickets, contact Rita Monser, 321-2076, Doug Bammann, 294-2585 (Sandia), or Mark Rotter, 2-8370 (LLNL).

Right on target



The Lab's Protective Force Division Security Police Officer Team garnered third place overall in the annual DOE complex-wide Security Police Officer Training Competition (SPOTC) held at the Savannah River Complex, near Aiken, S.C., May 3-7. In addition, SPO III Daniel Repose came in third place and SPO III James Balch came in fourth place in the individual competition. Officer Joshua Basso took second place in an individual combination pistol/rifle competition and Balch placed third in an individual pistol shooting event. Also, PFD Captain Chuck Johnson won the Director's plaque for first place in the managers' competition. Shown from left to right: Kevin Morris, instructor; Security Police Officers: Daniel Repose, Tony Pirone, John Sims, James Balch, Scott Batson and Joshua Basso; and Lonnie Albey, instructor.

ANTHONY PIRONE

IN MEMORIAM

Patricia Louise Ellison

Patricia Louise Ellison, known to friends as "Patti," died May 2. She was 67.

Born Oct. 8, 1936, in San Francisco, she was the younger of two children born to Dr. Raymond and Irene Harris. She graduated from Lincoln High School in 1954 and San Francisco State University in 1958, earning a bachelor's degree in education. Upon graduation, she worked as an elementary school teacher for many years.

She married Tustin Elias Ellison in San Francisco in April 1963. They moved to Pleasanton in 1972 and raised their family. In 1986, Ellison began a 14-year career at the Laboratory. After retiring, she spent several years as a resident and active volunteer at Rossmoor in Walnut Creek.

She was preceded in death by her companion, Arnold Kurt Swann. She is survived by her sons, Tustin Neil Ellison and his wife, Holly, of Danville and Keith Ellison and his wife, Kimberly, of El Dorado Hills; her brother, Ray Harris Jr. of Concord; her grandson, Kaden, McKinley, Brennan; and Oliver and other family members and friends.

Services have been held. Donations may be made in Ellison's name to the Pleasant Hill Senior Center, 233 Gregory Lane, Pleasant Hill, CA 94523.

William 'Bill' Lee Barr

William "Bill" Barr, a retired physicist, died April 6. He was 79.

Barr joined the Lab in 1957 after receiving his bachelor's degree from the University of Washington and his Ph.D. from UC Berkeley, both in physics. After a short time in the weapons program working on the Coronet program he joined the magnetic fusion program working on various projects: P-4, Table Top, a number of direct energy conversion devices, TMX-U, tokamak edge physics and electrostatic isotope separation. He specialized in developing diagnostics, making careful measurements, interpretations

and analysis. He retired in 1989 and continued working part time until 1995.

Born in Wilbur, Wash., Barr spent much of his youth in Bay City, Ore. He served in the army in World War II, where he participated in D-day with the Army's 29th Infantry Division, landing at Omaha Beach at H-hour plus 20 minutes. Barr was awarded the Purple Heart for his wounds, and the GI Bill that allowed him to attend college.

He is survived by daughters, Terry Beyer of Pleasanton and Pamela Barr of Livermore; a son, Greg Barr of Sunnyvale; and a grandson Clay Beyer of Pleasanton. He was preceded in death by his wife, Leota Barr, who worked as a computer programmer at LLNL until her death in 1971.

In lieu of flowers, the family requests charitable donations to be sent to either KQED (c/o Membership Department, 2601 Mariposa St., San Francisco, CA 94110; Attn: Karen Laird), or another Public Broadcasting Station (PBS) of your choice.

Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

Contacts:

Media & Communications manager: Lynda Seaver, 3-3103

Newsline editor: Don Johnston, 3-4902

Contributing writers: Bob Hirschfeld, 2-2379; David Schwoegler, 2-6900; Anne M. Stark, 2-9799; Stephen Wampler, 3-3107; Gordon Yano, 3-3117. For an extended list of Lab beats and contacts, see <http://www.llnl.gov/llnl/06news/NewsMedia/contact.html>

Photographer: Jacqueline McBride

Designer: Julie Korhummel, 2-9709

Distribution: Mail Services at LLNL

Public Affairs Office: L-797 (Trailer 6527), LLNL, P.O. Box 808, Livermore, CA 94551-0808

Telephone: (925) 422-4599; Fax: (925) 422-9291

e-mail: newsline@llnl.gov or newsonline@llnl.gov

Web site: <http://www.llnl.gov/PAO/>



BROADCAST SCHEDULE

LAB TV

A rebroadcast of the the Director's Distinguished Lecturer Series talk by Theodor W. Hänsch, director, Max-Planck-Institut für Quantenoptik, Germany, on **"The Heartbeat of Light,"** will air on Lab TV channel 2 at 10 a.m., noon, 2, 4 and 8 p.m. Thursday, May 20, and 4 a.m. Friday, May 21.

NEWS OF NOTE



Axelrod honored for work on HOME Campaign

Charles Osolin
NEWSLINE STAFF WRITER

Patricia Axelrod, co-chair of last year’s HOME campaign, will be honored next week by the San Francisco/East Bay Branch of Community Health Charities of California (CHCC) as “Outstanding Chairperson of 2003.”

Carlynn Williams, the agency’s executive director, said Axelrod was singled out for the award because of her “enthusiasm and focus” in arranging presentations for Lab employees so they could learn more about the charities participating in the campaign. CHCC supports the California chapters of more than 50 national and regional health agencies.

“Patricia went over and above the call of duty,” Williams said, “and made the campaign successful and enjoyable for all of the participants. She was able to strike an equal balance that was fair to all the organizations. And the presentations were very well organized, so we had plenty of time to arrange to come on site and meet face-to-face with employees.”

Axelrod said collaboration with umbrella organi-

zations like CHCC was particularly important for last year’s HOME campaign because of the slow economy, which put a crimp on charitable giving. By attending talks and presentations, she said, employees had an opportunity to learn how the campaign works and “how their contributions help the community.”

CHCC’s charities, for example, provide support for numerous clinics, support groups, and respite care to help people cope with debilitating illnesses such as cystic fibrosis, lymphoma, Multiple Sclerosis, Alzheimer’s, arthritis, and blindness. Axelrod said, “Working together, we were really able to showcase the tremendous positive impact on the community from both volunteerism and the resources donated through HOME.”

The 2003 HOME (Helping Others More Effectively) campaign was the Lab’s most successful yet, raising more than \$1.5 million for more than 200 non-profit agencies.

“We (LLNL) have a very different approach than most organizations,” Axelrod said. “We’re very flexible and open for employees to donate to any recipient they pre-

fer. The collaborations helped in sharing ideas and presenting information about the various charities and how the activities they support help in the local area.”

Axelrod said the recognition from CHCC “speaks very well of the Laboratory and the commitment of everyone who was part of this effort as we extend into the community through HOME.”

The award will be presented at a luncheon Monday in Concord. CHCC will also honor last year’s outstanding volunteer, outstanding company (Chiron Corp.), and outstanding member charity (The Alliance for Technology Access).

Award recipients will receive a certificate of congressional recognition from Representative Ellen Tauscher’s office.

Last year’s HOME campaign was sponsored by the Laboratory Services Directorate, where Axelrod is deputy associate director for operations and administration. The Chemistry and Materials Sciences Directorate will sponsor this year’s campaign. Since 1995, HOME campaigns have raised more than \$9 million for charity.

BRIEFLY

Hall delivers commencement address

On Saturday, May 1, James Hall, an N Division nuclear physicist, delivered the commencement address at his former undergraduate school, Colorado State University – Pueblo. Speaking to a group of about 550 graduates and a “standing room only” crowd of more than 5,000 of their family and friends at the Colorado State Fair Events Center in Pueblo, Colo., Hall told the audience that there is life after graduation.

“The basic idea of my speech was to somehow try to convince them that there really is life after graduation (even from a relatively small school) and that the only limitations they face are those that they set on themselves,” Hall said.

Hall reminded the crowd that he was born and raised in Pueblo and didn’t move away until he went on to graduate school at Kansas State University in 1974 where he pursued his master’s and Ph.D. degrees.

“I knew from the sixth grade on that I wanted to be a scientist someday. In particular, I

wanted to be a ‘nuclear physicist.’ Now, to be honest, I didn’t know quite what that was back then, but it sure sounded cool, so that’s what I set my sights on,” Hall told the graduates.

Living Well speaker series

The Worklife Programs Office and Health Services Department present the first in a series of “Living Well” talks with “A Common Sense Approach to Alzheimer’s Caregiving,” by John and Bea Gorman, founders of the Alzheimer’s Aid Society of Northern California, on Monday, May 24, at noon in the Bldg. 543 auditorium.

How do you manage the everyday care of a loved one without going off the deep end? John and Bea Gorman have devoted their lives to the support of caregivers. Learn what the Gormans have found to work when caring for individuals with Alzheimer’s disease. Bea Gorman will share her own challenge of dealing with Alzheimer’s disease. At age 52, Bea’s mother lost her life to the disease. Four of Bea’s siblings would also fall victim to Alzheimer’s disease at very young ages. Bea’s new biography, “Will I Be Next?,” reveals how this caregiving experience has affected her life.

The Alzheimer’s Aid Society of Northern California, founded by the Gormans, helps caregivers

understand the disease and the care of the patient. The society provides information and referral services. The Gormans have participated in more than 3,100 speaking engagements in 112 cities since 1990 on behalf of the society to help the public and professionals understand the devastation of Alzheimer’s disease. Literature on Alzheimer’s disease and the Alzheimer’s Aid Society of Northern California will be available at the event.

For more information, contact Carol Sandoli, Worklife Programs Office, 3-4385.

Lab hosts foreign travel workshop

The Lab is hosting a foreign national travel workshop “U.S. Re-entry and Visa Issues,” from 1-3 p.m. on Thursday, May 20, in the Bldg. 123 auditorium. If you are a foreign national and will be traveling out of the United States this summer and especially if you need to apply for a U.S. entry visa, you are strongly encouraged to attend this workshop. A question-and-answer period will be available at the end of the workshop for individual questions and consultation with advisers who will be in attendance. Travel signatures, if needed, for documents generated by UCB/SISS also will be provided. F-1 students must have their documents signed off by their home university. Workshop topics include: travel endorsements on documents (if necessary); travel documents; re-entering the United States — U.S. Visit System; determining when a visa stamp is required for re-entry into the United States; what documents you will need to apply for a visa; the visa application process; security clearances; procedures for travel to Canada and Mexico; special registration procedures; and a question-and-answer period.

No sign-up is necessary. Bring your passport and form DS-2019 or I-20 for endorsement (only documents generated by SISS/UC Berkeley will be signed off). More information can be found on the following Websites: SISS: <http://www.ias.berkeley.edu/siss/immigration/general/travel.htm>; U.S. Embassy or Consulate: <http://www.travel.state.gov/links.html>; or Immigration Services: http://www.llnl.gov/immigration_services.

No bones about it



From left: Chelle Clements undergoes a bone density test last week at a mobile clinic set up at Sandia by the Foundation for Osteoporosis and Research Education while Dr. Ronit Katz and Dr. Phil Arzino of Health Services and technologist Donna Schuppert look on.

JACQUELINE MCBRIDE/NEWSLINE



NEWS YOU CAN USE

Central Valley Science on Saturday heats up with fusion talk

The Lab's popular "Science on Saturday" program travels to Los Banos on Saturday, May 15, where Lab physicist Don Correll will present the lecture "Fusion Energy: What Happens at 100,000,000 Degrees?" The talk will explore questions about fusion — What is it? Can we produce fusion on earth? What would we use it for? The lecture will begin at 9:30 a.m. at the Los Banos High School Theatre.

This talk is the third and final this season in a series presented in Merced county by the Lab's Science and Technology Education Program (STEP). LLNL began offering the SOS program in the Central Valley in 2003.

"There are very few science education resources available to students in the Central Valley," said Richard Farnsworth, manager of STEP. "We started offering SOS to share the excitement of the big science at the Laboratory with these students and help to develop interest

in pursuing careers in science."

The Central Valley SOS series is hosted by Merced College, Merced County Office of Education and the University of California, Merced.

For more information, go to <http://www.mccd.edu/mcti/sos/2004/default2004.htm>.

Plasma dictionary

LLNL's Plasma Dictionary Website was just cited by the Infography Website (<http://www.infography.com>) as "one of the six superlative sources of information about the subject of plasma science and technology."

The Plasma Dictionary Website (<http://plasmadictionary.llnl.gov>) is based on the Fusion and Plasma Glossary that was originally created for the Fusion Energy Educational Website (<http://fusedweb.llnl.gov>) that Lab employee Bob Heeter brought to LLNL from Princeton

Plasma Physics Lab (PPPL).

In response to many inquiries from teachers, students and science writers for a list of plasma and fusion terms, several years ago Don Correll (working with Bob Heeter of Physics and Advanced Technologies and Mitch Alvarez of the Lab's Science and Technology Education Program) created a database-driven Web-site to respond to such requests.

The dictionary allows users to search for specific terms or browse alphabetic listings as an aid in enhancing literacy in plasma science, serving as an educational aid, providing practical information, and helping clarify plasma writings.

Plasma researchers and educators are encouraged to add new terms and definitions, including commenting on existing information.



Technical Meeting Calendar

Friday
14

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

"Infrared Emission From Interstellar Paks, New Probes of the Interstellar Medium," by Louis Allamandola, NASA Ames Research Center. Noon, Bldg. 319, room 205. Contact: Wil van Breugel, 2-7195, or Sharon Taberna, 3-6290.

CHEMISTRY & MATERIAL SCIENCE MATERIALS SCIENCE & TECHNOLOGY DIVISION SEMINAR

"Physics, Chemistry and Biology of Nanomaterials," by Challa Kumar, Louisiana State University. 3:30 p.m., Bldg. 235, Gold Room. Refreshments will be served at 3:20 p.m. Contact: Tom Felter, 2-8012, or Rebecca Browning, 2-5500.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Data Driven Execution of Communication Tolerant Algorithms," by Scott Baden, UC San Diego. 2 p.m., Trailer 3520, room 1174 (property protection area). For more information, go to <http://www.llnl.gov/casc/calendar.shtml>. Contact: Dan Quinlan (CASC), 3-2668, or Leslie Bills, 3-8927.

Monday
17

PHYSICS & ADVANCED TECHNOLOGIES/N DIVISION

"BEARS: Radioactive Ion Beams at Berkeley," by James Powell, Lawrence Berkeley National Laboratory. 10:30 a.m., Bldg. 211, room 227, badge required. Contact: John Becker, 2-9676, or Pat Smith, 2-0920.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Globalization Techniques for Newton-Krylov Methods," by Homer Walker, Worcester Polytechnic Institute. 10 a.m., Bldg. 451, room 1025 (property protection area). For more information, go to <http://www.llnl.gov/casc/calendar.shtml>. Contact: Carol Woodward (CASC), 4-6013, or Leslie Bills, 3-8927.

Tuesday
18

CHEMISTRY & MATERIALS SCIENCE/FRONTIERS IN CHEMISTRY & MATERIALS SCIENCE

"Virus-Based Genetic Toolkit for the Directed Synthesis of Magnetic and Semiconducting Nanowires," by Angela Belcher, professor of materials science and engineering and biological engineering, Massachusetts Institute of Technology. 3:30 p.m., Bldg. 155 auditorium. Refreshments will be served at 3:15 p.m. For information on Belcher and an abstract of her talk, see the Website: http://www.cms.llnl.gov/cms_frontiers_ext/index.html. Contact: Mike Fluss, 3-6665, for Kristine Ramirez, 3-4681.

LLNL/NPS

"Scientific and Engineering Reachback in Support of Operations Enduring Freedom (OEF) and Iraqi Freedom (OIF)," by Tom Ramos, Counterproliferation Analysis and Planning Systems (CAPS). 3-5 p.m., Spangel Hall, room 421, Naval Postgraduate School. No foreign nationals allowed. For more information, go to <http://npslectures.llnl.gov>. Contact: Harry Radousky, 2-4478, or Brenda Foster, 3-8257.

PHYSICS & ADVANCED TECHNOLOGIES /V-DIVISION

"High Resolution Photoelectron Spectroscopy at the Advanced Light Source," by interviewee Sophie Canton, Lawrence Berkeley National Laboratory. 10 a.m., Trailer 1726, room 1000. Contact: Stefanie B. Landes, 2-3201.

Wednesday
19

LLNL/NPS

"Implementing the Nuclear Posture Review: The Middle East Redux?" by James Russell, Naval Postgraduate School. 3 p.m., Bldg. 123 auditorium. A reception will follow. For more information, go to <http://npslectures.llnl.gov>. Contact: Harry Radousky, 2-4478, or Brenda Foster, 3-8257.

MACINTOSH TECHNICAL SEMINAR SERIES

"OS X Automated Software Distribution." This session of the Macintosh Technical Seminar Series will feature a presentation by LLNL systems and network senior associate Charles Heizer, who will demonstrate the installa-

tion and functionality of the OS X Radia Client and discuss the OS X system imaging and Xre-store. 10:30 a.m., Bldg. 543 auditorium. Contact: Duane Straub, 2-9774, or straub1@llnl.gov.

ENERGY & ENVIRONMENT DIRECTORATE

"Power Generation from the Reaction of Carbon or Coal in Fuel Cells," by John F. Cooper, Chemistry and Materials Science Directorate. 1:30 p.m., Bldg. 543 auditorium. Refreshments will be served. Contact: Camille Vandermeer, 3-2672.

Thursday
20

CHEMISTRY & MATERIALS SCIENCE/MATERIALS SCIENCE & TECHNOLOGY DIVISION

"Processing and Characterization of Nanocrystalline Materials with Interesting Physical Properties," by Amiya Mukherjee, UC Davis. 1:30 p.m., Bldg. 235, Gold Room. Refreshments will be served at 1:20 p.m. Contact: Tom Felter, 2-8012, or Rebecca Browning, 2-5500.

Friday
21

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

"A Metallicity/Environmental Dependence of Peak SNe Ia Luminosity," by Jim Truran, University of Chicago. Noon, Bldg. 319, room 205. All attendees need to be badged. Contact: Wil van Breugel, 2-7195, or Sharon Taberna, 3-6290.

PHYSICS & ADVANCED TECHNOLOGIES /V-DIVISION SEMINAR

"Shock-Induced Melting in Solids," by Thomas J. Ahrens, California Institute of Technology. 10 a.m., Trailer 2128 ballroom. Contact: Stefanie B. Landes, 2-3201.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Send your input to tmc-submit@llnl.gov. For information on electronic mail or the Technical Meeting Calendar list, see the auto registration service on the Web.

AROUND THE LAB



Public comment period on environmental impact of Lab activities to close May 27

Public comments should be submitted by Thursday, May 27, for the draft Site-wide Environmental Impact Statement for Continued Operation of Lawrence Livermore National Laboratory and Supplemental Stockpile Stewardship and Management Programmatic Environmental Impact Statement (LLNL SW/SPEIS). The Department of Energy's National Nuclear Security Administration's (NNSA) Livermore Site Office requests public involvement in review of the draft LLNL SW/SPEIS.

Public hearings to receive oral and written comments on the draft Site-Wide Environmental Impact Statement for the Laboratory were held on April 27 in Livermore, April 28 in Tracy and April 30 in Washington D.C.

The following Website may be accessed for additional information: www-envirinfo.llnl.gov/. The Website has instructions on how to submit comments and request information. A toll-free number, 1-877-388-4930, has been established to receive public requests for information.

New ways to measure atom wavelength

Are you looking for a challenge? How about trying to measure the frequency of a hydrogen atom?

That's been the goal of Theodor W. Hänsch, ever since his postdoc days at Stanford in the late '70s.

Hänsch, who is now director of Germany's Max-Planck Institut für Quantenoptik in Garching, discussed his work Wednesday as part of LLNL's Director's Distinguished Lecturer Series.

Hänsch uses laser spectroscopy to study the atoms' wavelengths. "It's an old field that has reinvented itself many times over the years," he said.

In recent years, his laboratory has developed new techniques, achieving ever more precise results.

When Hänsch began his career, researchers had managed to measure the hydrogen atom's frequency to an accuracy of seven digits. Now, with the aid of titani-



Theodor Hänsch

um-sapphire ultra-short pulsed lasers and a new generation of atomic clocks, accuracy has increased to 14 digits, and may eventually reach 20.

Such precision is crucial for the application of Hänsch's work. For example, it will be used by the European Galileo project, a series of satellites designed to compete with the U.S. network of GPS satellites. On the pure science side, Hänsch's team and others have already placed strict limits on whether the fundamental con-

stants of physics may have changed over the history of the universe.

Hänsch also pioneered the development of microfabricated atom chips, which integrate magnetic traps, wave-guides, beam splitters, etc. to form complex systems. Such ultracold trapped ions are unique quantum systems for the study of new states of matter, atom lasers, etc.

Asian Art Museum director to speak

Emily Sano, director of San Francisco's renovated Asian Art Museum, will talk about the development of the museum and its innovative elements at noon, Thursday, May 20, in the Bldg. 543 auditorium.

Sano was honored in San Francisco as one of the "100 Most Influential Business Women of 2003."

The new museum has been described as not being just a collection of art and artifacts, but a memorable voyage through space and time. Sano's tenure as director focused on preparing the museum's move from Golden Gate Park to the former San Francisco Public Library in the Civic Center. The museum reopened in March 2003. The museum is one of the largest in the Western World devoted exclusively to Asian art.



Emily Sano

Sano, who holds a doctorate and masters degree from Columbia University, was a Woodrow Wilson Fellow and a Fulbright-Hayes Fellow.

The talk wraps up the Asian Pacific American Heritage Month speaker series.

APAHM festival coming

The annual Asian Pacific American Heritage Month Festival will take place from 11:30 a.m. to 1 p.m. Tuesday, May 18, on the lawn area near the pool.

The festival will feature a variety of ethnic foods including Indian, Vietnamese, Filipino, Chinese and Korean cuisine. There will be an Indian dance demonstration and a Filipino choir performance as well cultural exhibits.

APAHM

Continued from page 1

that a career in government was very secure. "My parents pushed me to the government sector because it was viewed as stable and secure," she said. "After 28 years in government, I've realized there's no stability in government either."

Yuan-Soo-Hoo also discussed the difficulties and racism that Asian Americans of all cultures, including Chinese, Japanese, Korean and more recently east Indians, faced in the mid-1800s through the early 1900s.

She said pioneering Asians of all cultural backgrounds faced similar hardships of exclusion and discrimination. They also shared dreams of opportunity, viewing this country as a promised land and opening up better opportunities for their children to succeed.

"Every Asian parent pounded, and I mean pounded, that you will go to college and get a good education," she said.

With that, Yuan-Soo Hoo quoted 2000 statistics stating that 47 percent of Asian Americans attend college, while the average for other races stands at 27percent.

She emphasized that the United States is "in the midst of a demographic shift," with the influx of people of all races into the country. She stressed the advantages that youth have now that didn't exist when she first came to America.

"It's a very exciting time for Asian Americans today especially in the Bay Area," Yuan-Soo-Hoo said. "We have to think about the sacrifices our ancestors had to make to make sure we have better lives."

The Lab's Asian Pacific American Council also handed out \$2,800 in scholarships to six local high school students before Tuesday's presentation.

The Lab's Asian Pacific American Council, Sandia/Livermore Asian Pacific Leadership Committee and the Administration and Human Resources, Chemistry and Materials Science, Safety and Environmental Protection directorates sponsor Asian Pacific American Heritage Month activities.

A state senator's story



JACQUELINE MCBRIDE/NEWSLINE

Washington State Senator Paull Shin discussed his experiences growing up in Korea during the Korean War and coming to the United States in a presentation at the Laboratory Thursday. Look for complete coverage in next week's *Newsline*.



CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1972, Cadillac El Dorado, collector's car, less than 3,000 miles on over-hauled engine, \$6,500. 925-447-5547.

1998 - Ford Escort ZX2, 2 Door with Moon Roof. Bronze Ext. 72,800 Miles. Automatic, A/C, AM/FM Cassette, Intr/Extr Good condition. \$ 6,000.00 or B/O. 209-814-5808

2003 - Jetta GL - manual trans., white w/ blk cloth int, cd pwr windows, entry. 33,000 mi. make offer, must sell, can't afford extra car. 209-526-2385

2001 - Honda S2000, silver w/red int, 6spd, 240hp, exc cond, 30k mi, \$23000 925-443-3093

1998 - Honda Accord EX V6, 82K miles, dark green, leather, loaded + extras, one owner, very clean, Excellent cond. \$10,500 925-413-8763

1995 - Red Ford Mustang with grey leather interior. 112K miles. New engine in 2002, has 30K mi. on it. \$5500. 925-449-1834

1996 - Ford Taurus - 4DR LX, only 47K miles. Dark green, cassette, all power, a/c , one-owner family. Smogged - looks and runs great. \$4,000 OBO 925-443-6603

1991 - Acura Legend, taupe color, 104K miles, good condition. \$5,500 530-219-1931

2000 - Ford Expedition XLT - Triton V8, 20 inch tires and custom rims, only 44K miles, fully loaded. Please call for more info. Asking \$23,000. 209-892-8094

1983 - Mercedes turbo 300CD coupe, rare bird but in good condition. New tires and runs excellent. Destined to be collector's item. \$3400. 415-543-3643

1994 - Plymouth Voyager XL, Good condition, Pwr Steering, Pwr windows, Pwr Seats, new tires, new brakes tinted windows, 180k hwy miles, \$3,000 or B.O. 209-239-9114

2000 - Suburban 2500, 35,000 miles, seats 9. Excellent condition. \$18,000 209-835-8938

1993 - Mazda 626 4 dr sedan, 95K mi, have all repair records, well maintained, orig owner, \$2600 or B/O. 925-606-6155

1993 - Lincoln Town Car/4 door sedan 54K original miles. Fully loaded. Excellent condition. Call for more details. Asking \$4000.00/OBO 925-443-6151

1997 - Dodge Caravan, 100K mi. Good condition, runs great,\$4500 OBO. 925-449-0259

1998 - Dodge Neon 4 dr, 5 spd, a/c, CD player,new paint,new clutch,165k miles,tinted windows, dual air bags,good condition,\$2,000/OBO 209-914-2881

1995 - Camry LE-Ex.Condition,upgraded stereo,129K to and from work/around town/great 1st car. \$4900.00/OBO. After 5:30pm 925-443-6957

AUTOMOBILE ACCESSORIES

Seat, rear bench, folds into single bed, for full size van application, call for dimensions; \$100 aft 6 pm please 209-832-2056

Used Ford F-150 2002 4inch ProComp lift kit all parts included cost \$900.00 will sell for \$250.00 OBO 925-515-5850

BICYCLES

Tandem bicycle, Pugeot 10 spd, with faring, rear saddlebags. Nice condition. Excellent for couples on a sum-

BOATS

Outboard Motor 9.5hp Johnson, short shaft, good condition, w/ gas tank & service manual, \$250, 2 Strokes are not outlawed in Calif! 925-443-5549

CAMERAS

2 64 MB Smartmedia cards. \$25 takes both. 209-483-8719

ELECTRONIC EQUIPMENT

HP Net Server 550 Xeon, Two removable SCSI Hard Drives, CD Burner, CD Rom and Floppy \$1000.00/obo 209-765-1841

GIVEAWAY

Free large industrial drafting table. Two parts - base & surface. Surface is 60 in x 38 in. You pick up in Livermore. 925-373-9319

Clean fill, from old garden boxes. You haul. 925-447-3307

8 1/4 drum 2 drum A body Mopar rear end & assorted front end parts 209-957-3289

1 Queen size waterbed w/waveless mattress and heater, 1 Supersingle waterbed w/mattress and heater w/6 drawer base and headboard bookcase 925-679-2284

Coleman gas grill. 925-447-8845

HOUSEHOLD

Garage Sale, Saturday May 15 at 350 Jensen St. Livermore, tools, fishing equipment, etc. starts at 8:00am 925-447-1009

China service for 12 + 3 serving bowls; Noritake Arroyo pattern; very good condition. \$125. 925-443-9467

Dining table - heavy beveled glass \$270.00 925-449-1481

Estate sale 1551 Heather Lane May 15-16 8 a.m. to 5 p.m. Furniture, pictures, and a lot of toys 925-443-8509

2 Like-New subtle white on white fabric couches, 6 ft. & 8 ft. widths. Immaculate. \$500 both! Can deliver/nearby, small fee. Dig photos available. 925-648-8008

Multi-Family Garage Sale, Sat May 15, 9-2, 54 Rainier Ave, Livermore; furniture, baby items, household items, kids clothes & toys 925-292-5155

Refrigerator/freezer combination. White Frigadaire, asking \$76. 925-443-9727

Glider rocker with light wood (birch or beech) and pastel woven seat & back cushions. Excellent condition. \$25. 925-373-9319

Moving: refrig. \$60; solid oak bed set for child (bed, bookcase, dresser, desk/chair) \$250; bunk bed \$75. 925-484-0716

Solid Oak Wall Unit pulldown desk on leftside and lower 2dr cabinet on rightside. Gorgeous \$300 OBO in Livermore! 925-455-8455

Solid maple desk (44 x 22) - great condition. \$75 obo. White student desk & dresser - good condition. both for \$50 obo 925-846-8394

King size Oak Head Board \$50, 42inch Glass Top Breakfast Table and two Chairs \$125, Solid Oak 42inch Dinnette Table with Four Chairs \$275(New \$1250). 925-837-4331

Beautiful 3-piece wall unit/TV armoire. Solid wood/pocket doors.Back lighting on shelves.Plenty of storage/ cabinets.Great condition.\$350. 925-455-

5245

Solid Oak Dining table with three expansion leafs, six chairs. Matching china cabinet and hutch. \$1050.00 OBO. Ask for Eva. 510-623-0739

Tanning Bed, 5 yr. old Wolfe System, New Bulbs, used personally only, \$1000 obo. 925-250-9773

Futon: wood frame, mattress, matress cover, excellent condition. \$100 925-895-7195

Kenmore-Heavy Duty, gas dryer \$35.00 works well, Older GE Potscrubber, new motor \$20.00, Entertainment Center 74high by 31wide \$20.00 925-449-5844

LOST & FOUND

FOUND: Bracelet on Lupine Way at lunchtime Wed. 4/28. Var. color stone beads w/gold bead spacers. Hook-and-eye closure. Call and describe to claim. 925-417-8813

MISCELLANEOUS

Kelty Kids Double jogging stroller, very good condition Paid \$400. asking \$150. 925-449-9689

Large Trampoline 4 sale! \$100 obo - 2 years old. In Livermore. Come take away! Your kids will love it. 925-455-8455

Box of foreign coins, maybe 100, make offer, 209-854-3418

Lego Intellitrain motorized train set, \$20. Thomas/Brio train accessories, 3 engine roundhouse \$15, tunnel \$10, overpass bridge \$10. 925-454-0877

Craftsman socket set, 3/4 inch drive, 7/8 to 2-3/8 inch, never used, \$150 925-447-5194

MOTORCYCLES

2004 - Yamaha Silverado, 1100cc, 1500mi, \$9999.00, 1983 Yamaha 750cc, good running cond 26K \$999.00 209-629-2486, 209-269-6248 209-835-1867

MUSIC INSTRUMENTS

Taylor 314 Acoustic Guitar w/hard shell case. 700.00 209-839-9441

PETS & SUPPLIES

Looking for a place in/near Livermore to board my 5 yro gelding. Prefer something with turnout space (he needs to run around). Any ideas? 925-245-9683

I have a high energy 2 yr.old female Queensland Heeler. Would like to arrange day/evening play times with another high energy dog in Livermore. 925-606-7879

RECREATION EQUIPMENT

NordicTrack VGR 910 Elliptical trainer. Rarely used. Works great. Makes great coat rack. \$300 OBO. 925-513-6633

Kidder Skis ladies small life jacket. Excellent condition. \$20. 925-648-0671

Nordic Track Pro exercise machine. Great condition. \$150 obo. 925-455-6750

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsm>

PATTERSON - Join the Vanpool and relax/sleep while I drive + lower your commute costs. 7:30-4 shift. Ridership based fares. 209-892-2118, ext. 2-9502

BERKELEY - Rider/driver needed to

complete a four person carpool. Leaves North Berkeley at 7am; leaves LLNL at 4:40 pm. 510-524-8332, ext. 2-5949

Oakland - Looking to join/start a carpool leaving from Oakland (580/13/Mills College) or points east, on a 9/80 8-5:45 schedule. 510-821-0046, ext. 2-2036

Brentwood - Join our great carpool - meet at Albertsons. Schedule is 7:30 am to 4:15 pm 925-516-2687, ext. 3-8927

Lafayette - LaMOrinda Vanpool (also WALNUT CREEK stop at Rudgear Rd): reclining seats, reading lights, 7:45-4:45, \$105/mo (pretax reduction available) 925-943-6701, ext. 2-3005

SERVICES

Experienced Pet Sitter! Dogs, Cats, Fish, Birds, Reptiles. Call for low rates! 925-455-0847

Computer training, computer repair, and assistance picking out the right machine for you all available! 7 Years experience! 925-455-0847

CONCRETE-foundations, custom, stamped, colored, sealing & more. Over 20 years experience. Free estimates. 408-806-9816

Handyman/Painter: Need help with your weekend projects or painting? Call now for a free quote! 925-455-0847

Moving Help. \$40.00 per hour, 3 hr min. VERY experienced at moving. Can work on evenings, 9-80 Fridays and weekends. 209-830-1528

Ceremonial White Doves of Modesto. Release white doves as symbols of everlasting love and devotion. \$150 to \$175. For more info, call 209-521-6961

Christian, Loving, Licensed Day Care for kids 18 months to 5 years. 209-833-1281

Fences, Decks and general Handy work. No job too small. 209-833-3325

SHARED HOUSING

Stockton - Stockton-furn room for rent. No p/s. Full privileges/priv bath. Util negot; \$550.00 pm; Dep; avail immed. Nr fw. 209-234-1374

Livermore - furnished room for rent. Clean/quiet. Pool. No pets/no smoking. \$550.00/month. Share utilities 1/3. Deposit. 925-449-1128

Oakley - furnished room w/private bath, laundry room, kitchen privldges. Nice home/clean. \$700.00 mo. (\$300.00 dep.) includes utilities. Mature adult M/F. 925-679-3002

Tracy - Tracy- Room for rent with priv. bath All utilities included \$500.00 Avail now 209-834-0964

Pleasanton - Huge MBR suite in Valley Trails single family home. Access to W/D, kitchen, spa. Wired for phone, cable, wireless internet. \$750/mo plus 1/3 utils. 925-600-0297

TRUCKS & TRAILERS

1986 - Class A RV, 1986 Winnebago Chieftain, 27ft, < 40K mi, completely self contained, very good condition, extra tank, generator has <30hrs, \$7000. 925-370-1342

1967 - Arist. 16 foot Camper Trailer. \$995/BO 925-449-6048

LEER camper shell fits 1999 to 2004 Ford F250 or F350. The color is gold or pewter. \$800 OBO. 925-625-2336

1973 - GMC 4x4 truck. 6 inch lift, new 35 tires, rebuilt 350 engine. Does not require smog. Needs some work \$2000/ offer 209-368-4286

2001 - Dodge short bed snap on soft cover with all hardware. Still on truck. \$65 obo. 925-454-1426

2001 - Rexhall Roseair 39.5 ft motorhome 350hp Cummins Diesel, 2 slides, fireplace, 14K miles,like new many extras, includes 93 Saturn SL2 dingy \$127K/Offer 209-832-4826

1983 - Coleman Royle tent trailer. Sleeps four. Very good condition. \$1,150. 925-455-6750

VACATION RENTALS

South Lake Tahoe - 3 bedroom 2 bath chalet, nicely furnished, all amenities, great for families.off-season rates now! reserve now for summer vacations! 209-599-4644

Nice, cozy mountain cabin near Arnold. 4bedr,2 bath. Wood burning stove, near streams, lakes, fishing and hiking. 925-245-1114

Soooo cute beach cottage in Santa Cruz. 2bedr, 2 bath. Fully equipped kitchen, spa. 4 blks to ocean. Near boat harbor. 925-245-1114

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. LLNL rates for year-round reservations. 925-449-0761

Mendocino Coast - - Ocean View - large 4bd/4.5ba home, hot tub, private courtyard, deck, 3Q/1F/bunks, pets ok w/ dep., 2 night min., discount for LLNL employees 925-455-5942

Gualala - Mendocino Co, Stunning Whitewater Ocean views, 2bd/2ba home. Walk to downtown restaurants, galleries and shops. Reserve now for summer! 925-606-1845

WANTED

Wanted: responsible babysitter in Livermore for occasional (Friday or Saturday nights) sitting for 7 year olds at our south Livermore home. 449-7525

Wanted: Maxtor 7 GB hard drive model 87000A8 w/the following codes: HDA/uplevel = 01A; PCBA/uplevel = 03A; Unique/uplevel = 11A. Must be in operating cond. Will pay good price or trade for larger new hard drive. Desparately need to recover data from like drive. 925-447-3034

WANTED: Old amps,speakers,vacuum tubes, stereos,music equip, etc. 925-443-2954

Wanted: Used bike that runs well. 925-455-0847

Wanted: We pay CASH for COINS! Sell those coins now and do something fun with the money. 925-455-0847

Need weekly or biweekly house cleaning for 3b/2b home in country. Reliable and reasonable. Too much work to do outside, so I need help inside. 925-447-4830

Wanted,Your old power lawn mower donated,running or not. 10 year old wants to fix them up.Will pick up in Livermore/Pleasanton. 925-449-7978

Twin Beds for Mens Recovery Home in Brentwood. Donation Receipt. 925-382-4478

Looking for a 21-foot to 30-foot RUNNING pontoon boat. Any year considered. Please call 408-205-4272

Now collecting childrens books for the Livermore Valley Charter School Library. Call to donate. 925-294-9022

I am looking for a good quality engine stand to rebuild my chevy 350. 925-683-2187

WANTED a walking/running treadmill in good condition, reasonably priced. 925-447-4898

Hill helps U.S. team win underwater hockey gold

By Stephen Wampler
NEWSLINE STAFF WRITER

For Francesca Hill and her U.S. teammates, the fourth time was the charm in the World Underwater Hockey Championships.

Hill was a member of the U.S. underwater hockey team that captured the gold medal in the women’s masters division (32 years or older) held March 20-April 3 in Christchurch, New Zealand.

To get into the championship match, the U.S. team played a triple round robin competition against the division’s other three teams from New Zealand, Great Britain and Australia.

The U.S. team defeated Great Britain and New Zealand three times each — and lost to Australia all three times, 1-3, 1-3, 1-5 in the preliminary rounds.

But in the championship game, the U.S. team finally turned the tables and downed the Aussies, 3-1.

“We have women on our team who are serious athletes and who could take their game to the next level in a crucial match,” Hill said, explaining her team’s turnaround in the title contest.

“The whole experience of the championships was fantastic. It was great because I was able to travel and compete in a sport I really enjoy.”

A biomedical scientist in the Laboratory’s Health Effects Genetics Division, Hill has played underwater hockey for a decade.

She was introduced to underwater hockey through



JACQUELINE MCBRIDE/NEWSLINE

Francesca Hill of the Lab’s Health Effects Genetics Division, along with her U.S. teammates, recently won the World Underwater Hockey Championships.

the Livermore Lab Employee Services Association’s (LLESA) Vaqueros Del Mar scuba diving club, which periodically has presentations about water-related

activities.

“Three players from Club Puck, a San Jose underwater hockey club, came to speak. They said it was something men and women could compete in together. I love water sports and it sounded great,” Hill said.

Hill plays underwater hockey, even in the dead of winter, with the LLESA-sponsored club, the Bottom Dwellers, which uses the Lab pool.

Another woman who regularly plays with the Bottom Dwellers, Wendy Okafuji of Fremont, was also a member of the U.S. women’s masters team that won the gold medal. Five team members hailed from the Bay Area and others came from Minnesota, Illinois and Washington.

The 10 players only practiced as a team during try-outs in November and January and at the championships.

In underwater hockey, which is considered a non-contact sport, players use a one-foot long stick to push a puck along the pool’s floor. The players seek to push the puck into a tray or goal.

In this spring’s championships, the U.S. open masters team also captured a gold medal, while the men’s and women’s teams each finished in eighth place.

The LLESA Bottom Dwellers Networking Group plays at the LLNL pool on Monday nights at 7 p.m. Beginners are welcome to come and equipment can be provided. For more details, contact Dean Dibble, 294-3417, Jose Hernandez, 3-2160, or Francesca Hill, 2-5687.

SAFE

Continued from page 1

SAFE reports to Anastasio and to Shotts programmatically, and is connected to NAI administratively through Z Division, whose leader is Melanie Elder.

The SAFE Program provides services to the Laboratory in several areas: counterintelligence; counterterrorism; foreign visits, assignments, and contacts; foreign travel, and protecting business information (from industrial espionage).

Terry Turchie became manager of the SAFE Program on June 4, 2001, at the time of the previous inspection. He retired from the FBI as deputy assistant director for Counterterrorism after a 29-year career. The inspection report noted SAFE’s “significant counterterrorism efforts” during the past three years.

Another area in which SAFE’s efforts are particularly noteworthy, according to the draft inspection report, is in its liaisons with other Laboratory organizations. A

SAFE introduces ‘Spy of the Month’

The Laboratory’s Security Awareness For Employees (SAFE) program has launched a new feature on its Website: “Spy of the Month.” The rubric, which aims to make employees more aware of intelligence and counter-intelligence issues, features profiles of spies and how they operate.

The “Spy

of the Month” for May is terrorist and spy Ali Abdelsoud Mohamed. Terrorists as well as spies are included in “The Spy of the Month.” To find out how terrorism and intelligence activities are similar, and for

more information on Ali Mohamed, visit <http://www-r.llnl.gov/safe/spy-month.html>.



Memorandum of Understanding formalizes the working relationship between SAFE and other organizations within the Lab’s Safeguards and Security Organization, which

comprises the Safeguards & Security Department, Computer Security, Operations Security (OPSEC), and the University of California Police Department/LLNL Chief of Police.

SAFE was also noted for its outstanding liaison with the FBI. Two FBI special agents are assigned to LLNL and work closely with SAFE staff members.

In addition, SAFE has provided counterintelligence support to Lawrence Berkeley National Laboratory, predominantly to its security-cleared employees, for the past several years.

SAFE was established following what became known as “the year of the spy.” In 1985, a record number of individuals were exposed for espionage acts directed against the United States. In January 1986, LLNL formed SAFE in direct response to a government directive requiring government agencies to establish their own counterintelligence awareness programs.

For more information on the SAFE Program, visit the SAFE Web pages at <http://www-r.llnl.gov/safe/>.

SCHULTZ

Continued from page 1

lowed by trips to Maui and maybe a few cruises. But after giving his luggage a bit of workout, Schultz says he hasn’t given it much thought. At least not for now.

In talking with various colleagues who have gone on before him, Schultz has learned there are two schools of thought when it comes to pursuing life after the Laboratory. He can meticulously plan out his retirement, accounting for what seems like every minute of time. Or he can kick up his heels and relax a bit, “and see what this retirement thing is all about before I commit myself,” he smiled.

“I want to take some time to decide just how much free time I want to have and what I really want to do. My wife has convinced me that there’s no rush.”

While the decision to retire required some soul searching, Schultz admits it became much easier when his wife, Susie (longtime administrator for former Deputy Director Bob Kuckuck in the Director’s Office), retired in April.

“I’ve seen a lot of changes,” he said of the Lab and the community. “I remember when Livermore was just a cowboy town mixed in with a few physicists.”



Phil Schultz

was born. (Craig now works at the Lab in the Energy and Environment Directorate.) He joined the laser program when it was still in its infancy. Back then it was called Q Division, and Schultz said he was impressed by the great equipment available and all the resources and flexibility given to researchers. “The decision was easy to come to the Lab.”

Schultz says he enjoyed the time he spent with longtime colleagues he considers mentors as well as friends: former Laboratory leaders such as Kuckuck, Jack Kahn, Ed Lafranchi and Phil Coyle,

Schultz has also seen plenty of changes at the Lab, but the one he cites as most important was the Lab’s move to “become more business-like. I know that sometimes scientists are concerned it may restrict them, but we usually can find an appropriate way to accomplish all that is desired, and it’s given us important credibility. We have proven that we can deliver the science while adhering to good business practices.”

Schultz broke into the Lab in 1968 as an electrical engineer, shortly after his son, Craig,

to name a few.

Schultz worked in Q Division for several years before joining up with Lafranchi to work on the operations side of the Electrical Engineering Department. Then in 1978, he joined the Nuclear Test Program as a program manager, managing budgets at both the Lab and the Nevada Test Site for seven years.

In 1985, he joined the Budget Office as the budget officer and then became controller in 1995. That title was changed to chief financial officer in 2001.

“Phil always brought the right approach to whatever job he did,” said John Gilpin, the former Lab controller, now retired. Gilpin has known Schultz since he was at the DOE offices in Nevada and Schultz was making regular trips to the test site. It was Gilpin who selected Schultz as his budget officer. “Phil was always very thoughtful. He listened to all perspectives and always came up with a positive solution.”

“Working at the Lab you always have the opportunity to do so many different things, and I’ve always managed to get an assignment I really enjoyed,” Schultz summed up.

While Schultz will keep a hand in a few post retirement projects for the Lab and DOE, he says the finality of his career has settled in. “Now I have to face the prospect of packing. After 36 years, you accumulate quite a bit.”

Innovative construction program helps revitalize Lab



By Denise Robinson

– LLNL institutional facilities manager

Replacing substandard and inefficient facilities is one of the Laboratory’s highest priorities in facilities management. Modern, efficient structures reduce the on-going maintenance for facilities that have exceeded their life expectancy and eliminate maintenance backlogs and associated costs. Also, co-locating dispersed groups or teams of people is vital for operational efficiency and to save space. The National Nuclear Security Administration’s Facility and Infrastructure Recapitalization Program (FIRP) made this project possible. The FIRP is a direct-funded program specifically aimed at reducing maintenance backlogs and eliminating substandard facilities.

The Laboratory completed about 20,000 square feet of its first “design-build” office facility, which will house about 100 people with an average of 120 square feet per office in keeping with Gov-

ernment Services Agency (GSA) standards. The building is very attractive and its wide hallways provide a feeling of spaciousness. Energy-efficient sustainable design features, such as a skylight and large windows in each office, provide natural lighting. Other sustainable design features include an energy efficient and reliable HVAC system, energy-saving motion sensor light switches, an efficient irrigation system with drought tolerant landscaping, and exterior sun control devices.

The project met its aggressive 15-month schedule within a budget of \$4.9 million, which would have been difficult to accomplish with the traditional “design-bid-build” approach. The streamlined “design-build” concept allows LLNL to articulate the project requirements in terms of expected performance standards and outcomes. Using this innovative approach with a fixed price and a highly qualified construction contractor, we were able to transfer the risk from LLNL to a single-source contractor and consolidate project responsibility for efficient management.

The design-build approach is increasingly used at all levels of government, transportation/public utilities and educational facilities because it is the most cost-effective way to build facilities. At Livermore, highlights of this cost-effectiveness include:

- Eliminating costly customization and schedule delays;
- Reducing the overall LLNL project time by almost six months;
- Maintaining an excellent safety record — zero accidents/zero lost work time;
- Selecting the contractor using a “best value” process based on quality performance specifications; and
- Optimizing square footage within a constrained budget for a total project cost of about \$240 per square foot.

At the ribbon-cutting ceremony on May 10, the keys to the building were turned over to the Physics and Advanced Technologies Directorate to support critical national security programs. Occupants will begin moving in during the month of May. A series of additional replacement buildings are planned over the next few years to improve the quality of workspace for hundreds of employees.

Key members of the project team include Federal Project Director Tony Sy, Project Manager Danny Nguyen, and Construction Manager Tim Kemper. A special thanks to the Livermore Site Office, Plant Engineering, Procurement, ES&H Team 4, Security, Utel, EPD, GSE, and Panattoni Construction for partnering to make this possible.

BLDG. 142

Continued from page 1

or ongoing construction of such buildings as the International Security Research Facility, National Ignition Facility, Terascale Simulation Facility, Isotope Sciences office (Bldg. 155), and the new Central Café, Anastasio said the completion of Bldg. 142 represents “the next step” in upgrading facilities on site as part of the Lab’s 10-Year Comprehensive Site Plan

Camille Yuan-Soo Hoo, LLNL site manager for the National Nuclear Security Administration (NNSA), praised the “perfect safety record” for construction of the energy-efficient building. “This is an example of what NNSA and Congress intended with line item projects,” Yuan-Soo Hoo said. “The Laboratory is one of the best in the complex

when it comes to the management of Facility and Infrastructure Recapitalization Program (FIRP) dollars.”

Glenn Mara, deputy director for Operations, praised the teamwork both within the Laboratory and partnership with outside organizations that made the project exemplary. “This level of cooperation and performance demonstrates good stewardship of taxpayer dollars.”

Mara also credited Denise Robinson, LLNL institutional facilities manager, with “orchestrating” the efficient planning and moves associated with the project.

Pat Hastie, vice president of Panattoni Construction, said this was one of the company’s first experiences working with government on this kind of replacement building project. “We’re very excited about it and about our working relationship with the Laboratory,” Hastie said.

FIRP allows the Lab to construct buildings that replace substandard facilities, which are costly to maintain, with energy efficient buildings providing a well-designed work environment and requiring minimal maintenance. Reducing the deferred maintenance backlog and eliminating substandard facilities is a goal of NNSA (for more on this project, see the accompanying column by Denise Robinson, LLNL institutional facilities manager).

The 20,000-square-foot building, housing 100 offices of 120 square feet each, features spacious hallways, large windows and a skylight providing ample natural light. Other energy-efficient and sustainable features include: motion sensor light switches; a reliable HVAC system, drought tolerant landscape design and exterior sun control devices.



JACQUELINE MCBRIDE/NEWSLINE

Deaf awareness

Andrew Lange, president of National Association of the Deaf, last week presented “Everything You Wanted to Know About Deaf People But Were Afraid to Ask.” Lang, who lost his hearing as a teenager, talked about the three generations of deafness in his own family. He spoke and signed for his own presentation.



Newsline
UC-LLNL
PO Box 808, L-797
Livermore, CA 94551-0808